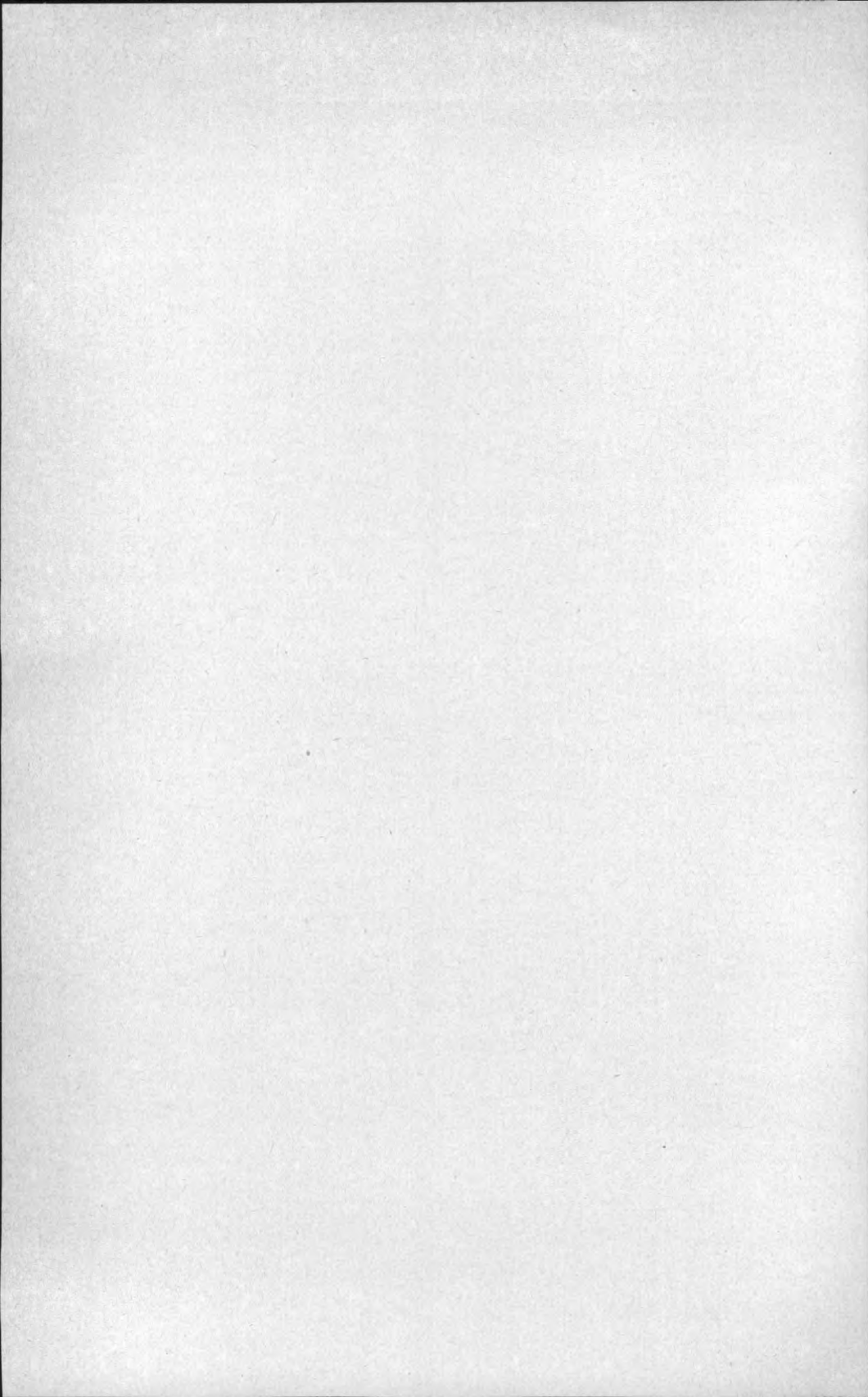


# COLLEGE OF ARCHITECTURE

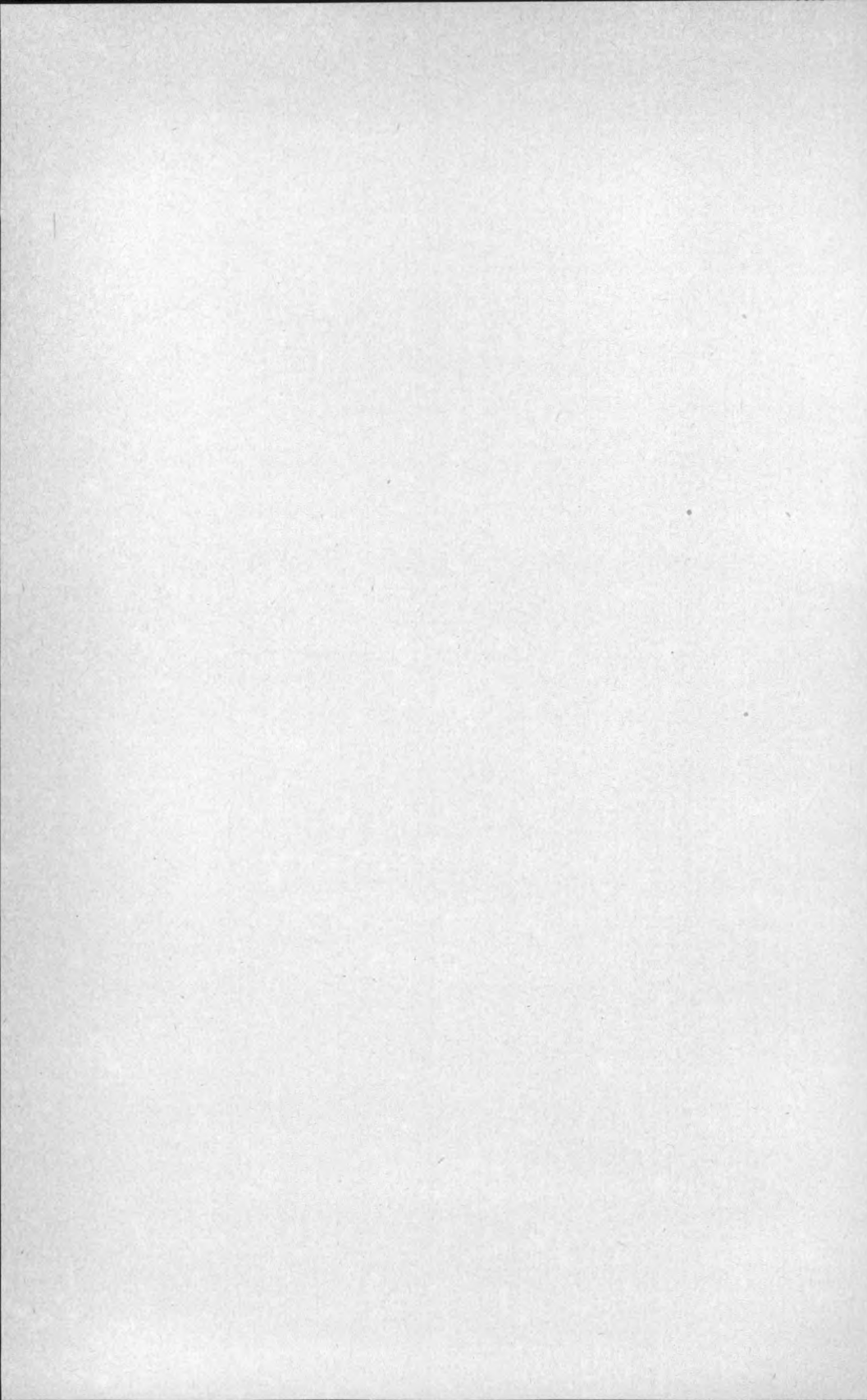
1958-1959

## CORNELL UNIVERSITY ANNOUNCEMENTS

Published by Cornell University at Ithaca, New York, every two weeks throughout the calendar year. Volume 49. Number 16. Jan. 28, 1958. Second-class mail privileges authorized at the post office at Ithaca, New York, December 14, 1916, under the act of August 24, 1912.









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# CORNELL UNIVERSITY

CORNELL UNIVERSITY owes its existence to the Morrill Act of 1862 and to the vision, energy, and generosity of two men—Ezra Cornell and Andrew Dickson White. Under the Morrill Act, the State of New York received from the federal government a substantial grant of western lands to be used for the support of colleges teaching agriculture and the mechanic arts. Cornell and White, serving together in the New York State Senate, conceived the idea of using the land grant for the establishment of a single great nonsectarian institution where the humanities and sciences would be taught as well as agriculture and the mechanic arts, and where all studies were to be on an equal footing.

In addition to this idea, which was revolutionary at the time, the original plan of the University contemplated the admission of women to all areas of instruction. This too was an innovation in the pattern of higher education in America.

Ezra Cornell, the successful man of business, and Andrew D. White, the scholar, devoted their lives and talents to the realization of these ideals. White became the new University's first president and Cornell its principal benefactor.

The site chosen was high on a hill overlooking Cayuga Lake and the city of Ithaca. The original site has been expanded through the years, but the heart of the beautiful campus is still Mr. Cornell's hilltop farm from which generations of students have watched the sun set across the valley behind West Hill.

Cornell University now embraces thirteen schools and colleges at Ithaca and the Medical College and School of Nursing in New York City. Some of the divisions of the University are supported by the State of New York. Others, including the College of Architecture, are privately endowed. Cornell University thus is a unique combination of the endowed and publicly supported types of institution.

The composition of the student body reflects the cosmopolitan character of the University. Here at Cornell there are students from all walks of life, from all parts of the world, representing all races, all creeds. Students of architecture or art associate in the classrooms, in the dormitories, and in student organizations with those studying, for example, agriculture, industrial and labor relations, or the humanities, to the advantage of all. From this close association with those with such diverse backgrounds and interests, students at Cornell learn lessons of understanding and tolerance that cannot be taught in the classroom or laboratory.

## THE COLLEGE OF ARCHITECTURE

AT CORNELL from the first there was a place in the University system for a school of architecture. A modest department was established in 1871, three years after the University was opened. It was fortunate to have President White himself for a patron. He had cultivated an intelligent interest in architecture from boyhood, as he records in his autobiography, and during journeys abroad his "pet extravagance" had been the collection of books and other material relating to it. He gave the new department all that he had accumulated—a large architectural library and several thousand architectural photographs, drawings, casts, models, and other items of material from all parts of Europe—a collection then almost unique. His gift formed the nucleus of an increasingly useful library and store of illustrative equipment.

In the course of time, as the University perfected its organization, the department became the College of Architecture. A department of art, organized in 1921, has played an increasingly important part in the College and in the life of the University. In recognition of the growing importance of urban planning, a department of city and regional planning was established in 1935.

The students in each of these programs, working in physical proximity to each other, gain a broader understanding of their own special area of interest through close contact with the students and teachers in the other disciplines.

As long ago as 1922 the College set a limit to the number of its students and devised a selective method of admission. It now enrolls about 325 students and has a full-time teaching staff of twenty-five, supplemented by visiting teachers and part-time lecturers and assistants. Teachers and students in such proportion mix together freely, and instruction and criticism are on an individual basis.

Although the College of Architecture is distinctly a professional school aiming at professional competence, it cannot afford to forget that it is a unit in a system of education and that its professional graduates are the better for being educated persons. That conviction may be reflected to some extent in the catalogue of courses, but not all of its effects can be catalogued. It is implicit in the teaching. It accounts for the credit to be earned by elective studies and for this College's organic articulation with various other University divisions. The candidate for any of the professional degrees normally does much of his work under professors of other arts and sciences. In his leisure time he can find means of acquaintance with any of the diverse human interests that occupy the members of a university.



## FACILITIES AND SERVICES

**BUILDINGS . . .** The College occupies Franklin Hall, recently remodeled for this purpose, and three floors of White Hall. In White Hall are drafting rooms, the library of the College of Architecture, offices, and space for the exhibition of student work. The administrative offices of the College are in Franklin Hall. Here also are lecture rooms, shops, and large, well lighted studios devoted to the work in drawing, painting, and sculpture. In this building also is a gallery for the exhibition of student paintings and sculpture.

Through the generosity of Mrs. Lillian P. Heller, the College has acquired the home of William H. Miller, the first student to enroll for the study of architecture at Cornell and later a practicing architect in Ithaca. This building is used to house guests of the College and for occasional receptions and social events.

**LIBRARIES . . .** The College maintains an excellent library of more than 15,000 volumes. It is adapted to use as a working collection and to the requirements of research. All the leading professional periodicals, American and foreign, are currently received and are preserved in bound volumes. There is also at hand a highly developed collection of photographs, color prints, and drawings, and a growing collection of lantern slides, which now numbers about 60,000. The library maintains a large collection of maps and city plans in connection with the instruction in city planning.

The University Library, the special libraries of various departments, and a "browsing library" for recreational reading in Willard Straight Hall, the student union, are available to students.

**EXHIBITIONS . . .** Art galleries are maintained in the Andrew Dickson White Museum and in Willard Straight Hall, where loan exhibitions of paintings and graphic work by contemporary artists are held. Current work of students in the College of Architecture is shown in the exhibition rooms in White Hall and Franklin Hall.

**HOUSING . . .** *Men.* Cornell University provides, on the campus, dormitory facilities for about 2,100 men. Complete cafeteria and dining service is provided in Willard Straight Hall, the student union building, which is situated between the dormitories and the academic buildings. Male students are not required to live in dormitories and are individually responsible for making their own living and dining arrangements. As a matter of convenience for those who wish to live in dormitories, application forms will be mailed to each male candidate



for admission as a freshman or a transfer student at the time of notification of provisional acceptance to the University. Housing in dormitories can be guaranteed for undergraduate men who have been admitted to the University and have filed dormitory applications by June 1.

Male graduate students may make application for dormitory housing directly to the Department of Residential Halls, Edmund Ezra Day Hall.

Off-campus housing may be obtained in private homes and rooming houses. The University, as a service to students, maintains a listing of available rooms and apartments. Inquiries should be addressed to the Off-Campus Housing Office, Edmund Ezra Day Hall.

*Women.* All undergraduate women who reside outside the Ithaca area are required to live and take their meals in University dormitories or in sororities (for members only). Permission to live elsewhere in Ithaca is granted under exceptional circumstances upon written application to the Office of the Dean of Women, Edmund Ezra Day Hall.

An application form for living accommodations for undergraduate women will be sent with the notice of provisional acceptance from the Office of Admissions to each candidate. Graduate women should make application for University dormitory housing directly to the Department of Residential Halls.

*Married Students.* The University operates the Pleasant Grove Apartments, a new garden-type housing development at the edge of the campus, and the Cornell Quarters, a recently renovated housing development southeast of the campus. Housing is also available in privately owned properties in Ithaca and the vicinity. Information about all these may be obtained from the Department of Residential Halls, Edmund Ezra Day Hall.

**HEALTH SERVICES AND MEDICAL CARE . . .** The health services and medical care of Cornell students are centered in the University's Gannett Clinic (out-patient department) and in the Cornell Infirmary (hospital). Students may consult a physician at the Clinic whenever need arises and receive treatment in cases that do not require hospitalization. If hospital care is indicated, the student is requested to enter the Infirmary. For details of the health and medical services covered by the student's College and University General Fee, see the *Announcement of General Information*. On a voluntary basis, insurance is available to supplement the services provided by the General Fee; information about such insurance may be obtained at the Gannett Medical Clinic.

**FACULTY ADVISERS . . .** During his first year each freshman will be assigned a faculty adviser, who will assist the student in working out

his academic schedule, term by term, while the student is in the College. The faculty advisers stand ready at all times to help and guide the student, not only in academic matters, but also, when possible, in personal problems and difficulties the student may encounter. In addition, the Offices of the Dean of Men and Dean of Women have trained staffs of counselors who may be consulted by University students on nonacademic matters.

**ASSISTANCE TO FOREIGN STUDENTS . . .** As a part of its student counseling services, the University has a Counselor of Foreign Students who is prepared to advise and assist students from other countries in every way possible. It is suggested that foreign students interested in the possibility of study at Cornell University write to the Counselor of Foreign Students, Edmund Ezra Day Hall, for advice on registration, living conditions, and other matters.

**UNIVERSITY PRIVILEGES . . .** The student of the College of Architecture is entitled to the use of all the University's general facilities and privileges. He may elect courses of study in any of the University's colleges. Cornell has all the usual extracurricular activities ordinarily to be found at a university, and they are open to all students. They include musical and dramatic clubs, undergraduate publications, religious, social, and professional organizations, and a great variety of athletic sports both intramural and intercollegiate.

## **COURSES OF STUDY**

The College of Architecture offers two programs leading to the Bachelor's degree—the five-year program in Architecture which leads to the degree, Bachelor of Architecture, and the four-year program in Art which leads to the degree, Bachelor of Fine Arts. These two programs have entirely different objectives. They are described in detail later.

The faculty of the College of Architecture, acting as a Division of the Graduate School, has jurisdiction over the following advanced professional degrees: Master of Architecture, Master of Landscape Architecture, Master of Regional Planning, and Master of Fine Arts.

Qualified students in City and Regional Planning may also be candidates for the degree, Doctor of Philosophy, in the Graduate School.

**ELECTIVE STUDIES . . .** As a general rule, the first year of each curriculum is designed to lay the foundation for the major subjects of the technical program and incidentally to permit the first-year student to test his fitness to go on with that program. Throughout the remaining years, opportunities for elective studies are offered in such a sequence that increasing maturity of mind may enable the student to make the

most profitable use of them. In each of the undergraduate curricula, about one-fifth of the work leading to the degree is elective, consisting of studies to be chosen by the student himself, with the advice and approval of members of the faculty, from the offerings of any college of the University. Such studies are intended to be liberally educational, developing some native intellectual faculty or interest quite outside the range of the professional course. A minor part of the time allotted to electives may, however, be used for intensive study in some one division of the professional requirement in which a student may prove to be either especially interested and competent or somewhat deficient.

A student who is admitted as a candidate for the Bachelor's degree in Architecture without the stipulated entrance credit in foreign language will be required to study a foreign language at the University as part of his elective program.

**MILITARY TRAINING . . .** As a land grant institution chartered under the Morrill Act of 1862, Cornell offers courses in military science which include all branches of the service (Army, Air Force, Navy, and Marines), the successful completion of which, and receipt of a baccalaureate degree, qualify a male student for a commission in the Regular or Reserve component of the appropriate service.

Participation in military training during the first four terms is mandatory for all undergraduate men who are citizens of the United States and are physically qualified. Satisfactory completion of the basic course in military science and tactics, air science, or naval science fulfills this requirement. Students transferring to Cornell from other institutions are exempt from all or part of the requirement, depending on the number of terms of residence in a college of recognized standing. Service in the armed forces may under certain conditions also satisfy the military training requirement.

Entering students who have had previous ROTC training in secondary or military schools, are requested to obtain DA Form 131 (Student's Record—ROTC) from the institution previously attended and to present it to the appropriate military department during registration. (See also the *Announcement of the Independent Divisions and Departments*.)

**PHYSICAL EDUCATION . . .** All undergraduate students must complete four terms of work, three hours a week, in physical education. This requirement must be completed in the first two years of residence; postponements are to be allowed only by consent of the University Faculty Committee on Requirements for Graduation.

Exemption from this requirement may be made by the committee designated above when it is recommended by the Medical Office; or when unusual conditions of age, residence, or outside responsibilities require it.

For students entering with advanced standing, the number of terms of physical education required is to be reduced by the number of terms which the student has satisfactorily completed (whether or not physical education was included in his program) in a college of recognized standing.

## ADMISSION

GENERAL POLICY . . . Cornell University welcomes applications for admission from all those who are interested in studying at Cornell regardless of race, religion, or creed. Selection of students is not governed in any way by those factors. The College of Architecture draws its students from all parts of the world and from all walks of life. The University is proud of the cosmopolitan make-up of its student body, believes in the educational values inherent in bringing to the campus persons of widely different backgrounds, and directs its admissions policy to the preservation of this fundamental characteristic. In choosing from among candidates of approximately equal qualifications, some preference may be given to those whose homes are in areas not adequately represented in the student body.

The number of students that may be admitted each year in each program, undergraduate and graduate, is limited. Preference is given to those applicants whose academic preparation and character show evidence of professional promise.

A total of sixty students a year are admitted to begin the study of Architecture; the entering class in Art is limited to thirty students. Those selected for admission must have demonstrated, without question, through their previous schooling, the intellectual capacity to carry the classroom work and to profit from the instruction offered. Intellectual preparedness is judged by the candidate's whole secondary school record, the recommendations of his school principal, and the Scholastic Aptitude Test of the College Entrance Examination Board.

The intangible but important factors which go to make up a person of good character, personal integrity, and effective personality receive full consideration by the selection committee. Capacity for leadership and concern for others receive due weight.

Prospective students should address the Director of Admissions, Cornell University, for forms to be used in making application for admission. Applications for admission must be received at the University in ample time to allow for assembling credentials, completing required tests, and reviewing by the Committee on Admissions. Secondary school students should, if possible, initiate their applications in the fall of the year preceding matriculation in college. The review of applications for all divisions of the University will begin not later than the first of March. Applications received after April 1 may not be considered.



**SUBJECT REQUIREMENTS . . .** Candidates for admission to the College of Architecture must demonstrate satisfactory knowledge of the following subjects:

*Architecture (B.Arch).* Sixteen units including English 4; Elementary and Intermediate Algebra 2; Plane Geometry 1; Trigonometry 1/2; Solid Geometry 1/2; Physics 1; Foreign Language 3 (or two years in each of two foreign languages 4), or, in certain cases, 3 units of history or science may be substituted for the requirement in foreign language for entrance. (See page 10.)

*Art (B.F.A.).* Sixteen units including English 4; Elementary and Intermediate Algebra 2. The remaining units should, in the main, be made up of foreign language, science, and social studies (including history).

Satisfactory knowledge of these subjects may be demonstrated by presenting an acceptable school record, by presenting acceptable ratings in the tests given by the College Entrance Examination Board or, if the candidate has prepared in the State of New York, by passing the appropriate Regents Examinations.

Entrance credit on the basis of the school record will be granted only in those subjects completed in a secondary school with standards acceptable to the University and only in those subjects where the candidate has attained the college recommending mark of the school.

**UNIVERSITY HEALTH REQUIREMENTS . . .** Each entering student, graduate or undergraduate, is expected to assume personal responsibility for the health requirements adopted by the Board of Trustees of Cornell University. Prospective students should consult the *Announcement of General Information* or that of the Graduate School for complete details of the health requirements. Permission to register for a new semester will not be granted unless all health requirements pertaining to the previous semester have been fulfilled.

**ADMISSION TO ADVANCED STANDING . . .** A student who has already attended another institution of collegiate rank may be admitted at the beginning of the fall term or, if a satisfactory schedule can be arranged, at the beginning of the spring term. The applicant is required to meet all entrance requirements and to comply with the rules governing admission. In addition, he should file with the Director of Admissions an official transcript of record of his work at the institution already attended, together with a certificate of honorable dismissal therefrom. He should also be prepared to send, if requested, a catalogue of that institution, writing his name thereon, and marking the courses he has taken as listed in the transcript.

**ADMISSION AS A SPECIAL STUDENT . . .** A person, especially one of comparative maturity, may, in certain circumstances, even without



satisfying the entrance requirements, be admitted as a special student not a candidate for a degree. The applicant must give evidence of ability to do creditable work in the College, and his application for admission must be recommended by the department in which he proposes to do the main part of his work. He must file his application with the Director of Admissions.

If a person admitted as a special student without satisfying the entrance requirements subsequently satisfies those requirements, he may be graduated under the ordinary regulations of the College. He will not be permitted, however, to make up deficiencies in entrance subjects by attending University instruction in those subjects.

Special students in the College of Architecture must be at least twenty-one years of age.

## EXPENSES

The tuition and fees in the College of Architecture for both undergraduate and graduate students amounts to \$550 each term. Of this, \$462.50 is tuition and \$87.50 college and University general fee. The normal academic year consists of two terms of sixteen weeks each. The general fee contributes to services supplied by the libraries, the Clinic and Infirmary, and Willard Straight Hall, pays a portion of the extra costs of laboratory courses and general administration, and supports programs of physical education and student activities.\*

Living costs depend to a great extent upon the individual's standard of living. Recent estimates indicate that men students spend between \$410 and \$520 a term for room and board. Laundry, done in Ithaca, may require \$30 to \$60 a term. Books, instruments, and other supplies will cost between \$25 and \$60 a term. Additional allowance must be made for clothing, travel, and incidentals.

The fixed charge for board, room, and laundry in the women's residences is \$495 a term. A printed circular on costs of living for women students is available from the Dean of Women upon request.

## SUMMER SESSION

A ten-week summer session in architectural design is offered whenever there is sufficient demand for such a session by students who have been regularly enrolled during the academic year. The summer session is intended primarily for students who have been admitted to the College with advanced standing in other phases of the curriculum in Architecture.

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\*Any tuition or fee may be changed by the Board of Trustees to take effect at any time without previous notice.

## UNDERGRADUATE SCHOLARSHIPS

Students and prospective students in the College of Architecture are eligible for consideration for a number of scholarships which are available to students of all divisions of the University. For other scholarships awarded on a University-wide basis, see the *Announcement of Financial Aids and Scholarships*.

The following scholarships are specifically for undergraduates in the College of Architecture:

*The Dean's Scholarships.* Open to all students in the College of Architecture. Four or five awards a year are made to entering students. Awarded on the basis of financial need and professional promise. Annual award, up to \$1,000.

*Gillespie Prize Scholarships.* Two scholarships of \$400 each may be awarded each year to fourth- or fifth-year students in Architecture. These awards are made from the bequest to the College of the late Albert D. Gillespie, '87 (Sp.), and are granted on the basis of general academic performance and need.

*Eschweiler Prize Scholarship.* Open to third-year students in Architecture. Awarded on the basis of general academic performance and need. This award is made from the bequest of Alexander C. Eschweiler, Jr., '15, in memory of his father, Alexander C. Eschweiler, Sr., '90. Annual award, \$400.

*Sargent, Webster, Crenshaw and Folley Scholarship.* Open to students in Architecture. Awarded on the basis of general academic performance and need. The scholarship is a gift from Sargent, Webster, Crenshaw and Folley, Architects. Annual award, \$350.

*Waldo S. Kellogg Scholarships.* Open to students in Architecture. Awarded on the basis of financial need and professional promise. An annual fund of \$3,000, which may be awarded as three or more scholarships in the discretion of the faculty. These awards are made from the bequest of Mrs. Frances E. Osborne Kellogg in memory of her husband, Waldo S. Kellogg, '93.

*H. R. Dowswell Scholarship Fund.* Open to a student in the College of Architecture who stands in the top quarter of his class academically, who has a good personality, and who has demonstrated qualities of leadership. This fund was established by Col. John R. Dowswell and Mrs. Harold E. Van Der Linde in memory of their father. Annual award, \$400.

## MEDALS AND PRIZES

*The Charles Goodwin Sands Memorial Medal*, founded in 1900 by the family of Charles Goodwin Sands of the class of 1890, may be awarded for work of exceptional merit done by a student in courses in architectural design or landscape design, or by a student in the Art curriculum for work of exceptional merit in painting and composition or sculpture. Theses in architecture, landscape architecture, or painting and sculpture are eligible for medal consideration. Two grades of this medal, the silver and bronze, are recognized.

*The Clifton Beckwith Brown Memorial Medal* was established in 1901 by John Harkness Brown in memory of his brother, Clifton Beckwith Brown of the class of 1900, who was killed on the field of battle at San Juan Hill. A silver replica is awarded by the faculty to that member of the graduating class who has attained the highest standing in Courses 106, 107, 108, and 109. The award is withheld if the standard is not considerably higher than that required for graduation.

*The Faculty Medal in Art* is awarded each year to the member of the graduating class in the curriculum in Art who, by his academic record and work in the studio, has, in the estimation of the faculty, shown the greatest promise of future achievement in the field of art.

*Andrew Dickson White Museum Student Art Purchase Prize*. The fund has been established by an anonymous donor, the income to provide prize money for the purchase of works of art made by students as part of their regular University class work.

*The Student Medal of the American Institute of Architects* is awarded to the member of the graduating class in Architecture who has maintained the best record throughout the entire course.

*The Fuertes Memorial Prizes in Public Speaking*, founded in 1912 by Charles H. Baker, a graduate of the School of Civil Engineering of the class of 1886, are offered annually to members of the junior and senior classes in the Colleges of Engineering and Architecture for excellence in public speaking. The three prizes are of \$80, \$40, and \$20.

*The Paul Dickinson Prize*, established in 1927 by Mrs. George A. Shedden of the class of 1923 in memory of her father, is awarded to the student in the first-year class of the College of Architecture who has attained the highest record. This prize is not awarded unless the record is well above the average of the first-year work in the College.

*The Edwin A. Seipp Memorial Prizes*, one of \$45 and one of \$25, were established in 1948 by Mrs. E. A. Seipp in memory of her husband, an alumnus of the class of 1905. They are awarded as first and second prizes in a special competition in design.

*The Baird Prizes*, one of \$25 and one of \$15, are awarded as first and second prizes in a special sketch problem competition in fourth- and fifth-year design, Courses 106-109 inclusive. The problem, lasting six days, is given during the early part of the second term and is of a decorative nature. The fund, established in 1927, was the gift of Mrs. M. Z. Baird. The income (or, in the discretion of the faculty of the College of Architecture, the principal) is to be used for the purposes of this College. It was designated as a prize fund by the faculty in 1927.

*The Edward Palmer York Memorial Prizes*, one of \$25 and one of \$15, are awarded as first and second prizes in a special competition for students in Intermediate and Junior Design, Courses 102-105 inclusive. The problem, lasting approximately one week, is given in the second term.

*The New York Society of Architects' Medal and Certificate* are awarded annually for excellence in construction to that senior student who, in the opinion of the faculty and the society's committee, is the leader of his class in construction as applied to architecture.

*The Alpha Rho Chi Medal* is awarded by Alpha Rho Chi, a professional architectural fraternity, to a student in the graduating class who has shown ability for leadership, has performed service to the school, and gives promise of professional merit through his attitude and personality.

*A group of students from other countries.*





# ARCHITECTURE

THE PROGRAM in Architecture is purely professional in objective, and only those who are seriously interested in professional careers in architecture should make application for admission.

The courses of study which lead to the degree of Bachelor of Architecture are designed to afford both the technical and the cultural foundation for professional work. They recognize the dependence of the profession of architecture not only upon technical skill but also upon a cultivated taste and a creative imagination. They emphasize the architect's obligation to society as well as to the client.

The architect today must be a person of many talents. He must be an artist and an engineer, an administrator, and a coordinator of the work of experts in many fields. Above all, he should have a broad understanding of fundamental human values and problems.

The five-year, ten-term curriculum in Architecture outlined in the following pages includes a thorough training in the basic skills and intellectual disciplines needed by the architect. In addition, the student is expected to enlarge his understanding of the liberal arts and sciences through elective courses chosen in consultation with his faculty adviser. Opportunity is also provided for the student to strengthen his architectural training through the selection of additional courses in such areas as construction, regional and city planning, or the fine arts.

The curriculum is conceived as a fundamental program in architectural training. There are no options or variations in the basic program except as may be permitted by the electives and a certain freedom in the students' choice of architectural design projects in the fifth year. The work in architectural design continues through all five years of study. It is organized so as to guarantee every student experience in solving a variety of architectural problems including residences, public buildings, commercial and industrial structures, and site planning.

As a matter of conscious and fundamental policy, each student comes under the instruction of a number of teachers in design during his course of studies. He is exposed to many points of view by experienced teachers and distinguished practitioners and is encouraged to develop his own philosophy of architectural expression.

While for purposes of organization it is convenient to divide the curriculum into courses, the faculty is aware that a division of Architecture into somewhat arbitrary components such as architectural design, structural design, and materials and construction is a matter of convenience



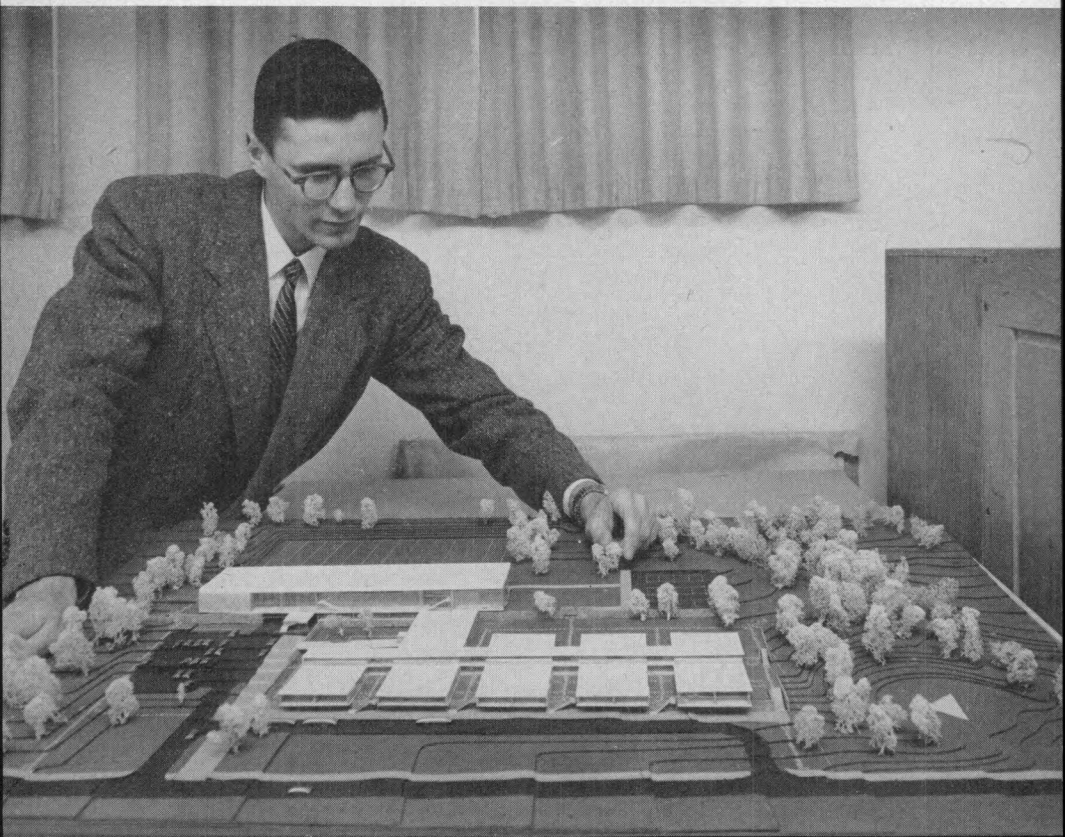
only. Effort is made in actual instruction to integrate the subject matter in these separate courses in such a way that they mesh with each other.

During the fourth year, the student ordinarily studies architectural design under a number of outstanding practicing architects who are brought to the College as visiting critics for four or five weeks each. In this way, advanced students are exposed to many of the currents and crosscurrents in architectural practice by men who are taking a leading part in contemporary design. Visiting critics during 1957-1958 included such well-known architects and designers as George Nemeny, Allan Gould, Lawrence B. Perkins, David J. Murphy, Jedd S. Reisner, Henry Hill, Hideo Sasaki, and Vladimir N. Ossipoff.

Formal instruction is supplemented by lectures given by distinguished persons invited to the campus to address the students in the College of Architecture.

The normal period of the undergraduate course of study is five years. Students who begin the study of architecture after having earned an A.B. or B.S. degree can ordinarily complete the curriculum in four years.

*A student design problem.*



Students who are admitted with advanced standing may sometimes accelerate progress toward the degree by attending a ten-week intensive architectural design course during the summer. Such a course is offered whenever there is sufficient demand for it by the students.

Those students who are especially interested in the related fields of landscape architecture or city planning may elect, with the permission of the faculty, to do special work in those subjects during the fifth year.

A satisfactory thesis is required of every candidate for the degree of Bachelor of Architecture. A substantial part of the last term is devoted to the thesis. The student chooses as a subject the design of a building or group of buildings. He does the necessary research, presents an architectural solution of the problem, and explains and defends it before a committee of the faculty.

*Practicing architects serve as visiting critics in Architectural Design.*



# CURRICULUM IN ARCHITECTURE

## BACHELOR OF ARCHITECTURE

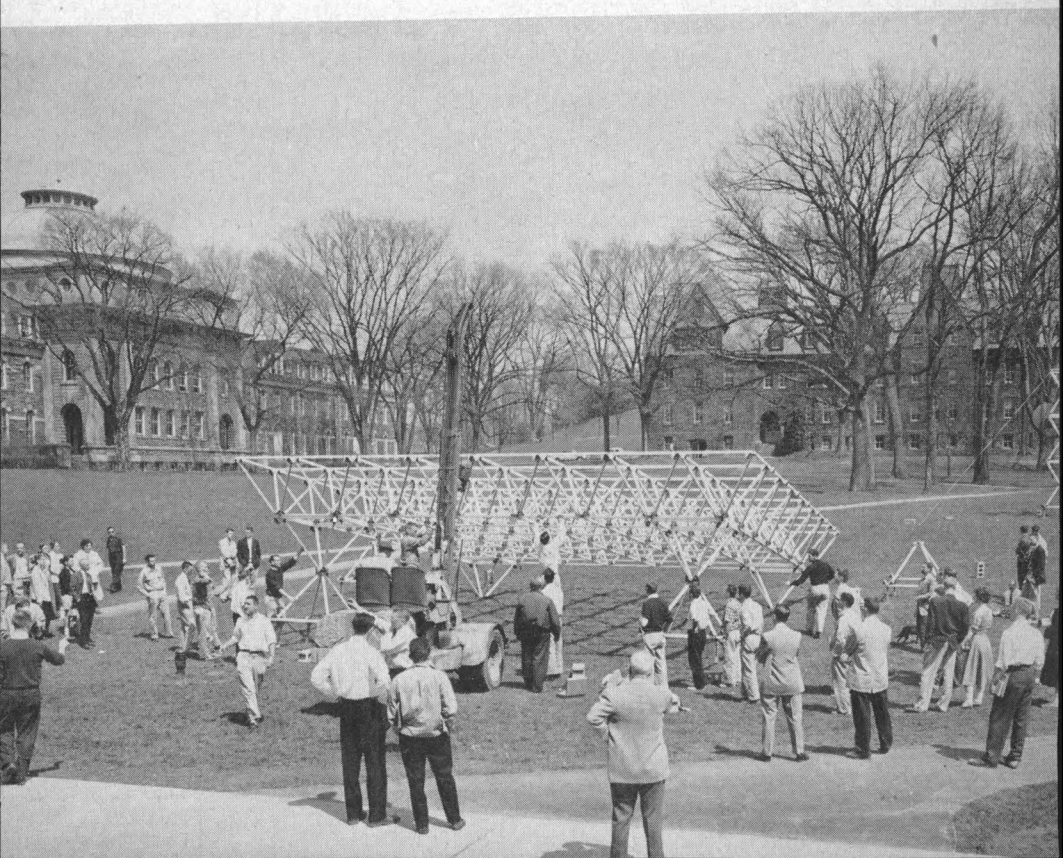
		CREDIT HOURS
<i>Term 1</i>	Introductory Design 100.....	3
15 hours	Descriptive Geometry 500.....	3
	Introductory Drawing and Painting, Art 311.....	3
	Introductory Course in Reading and Writing, English 111.....	3
	Analytic Geometry and Calculus, Mathematics 161.....	3
<i>Term 2</i>	Introductory Design 101.....	3
15 hours	Descriptive Geometry 501.....	3
	Introductory Drawing and Painting, Art 312.....	3
	Introductory Course in Reading and Writing, English 112.....	3
	Mechanics of Materials 200.....	3
<i>Term 3</i>	Intermediate Design 102.....	4
16 hours	Mechanics of Materials 201.....	3
	Intermediate Drawing and Painting, Art 313.....	3
	The Ancient World before Rome, History of Architecture 404.....	3
	Elective.....	3
<i>Term 4</i>	Intermediate Design 103.....	4
16 hours	Mechanics of Materials 202.....	3
	Introductory Sculpture, Art 331.....	3
	The Rise and Fall of the Roman Empire, History of Architecture 405.....	3
	Elective.....	3
<i>Term 5</i>	Junior Design 104.....	4
16 hours	Structural Design 203.....	3
	The Middle Ages, History of Architecture 406.....	3
	Building Materials and Construction 601.....	3
	Elective.....	3
<i>Term 6</i>	Junior Design 105.....	4
16 hours	Structural Design 204.....	3
	The Renaissance, History of Architecture 407.....	3
	Building Materials and Construction 602.....	3
	Elective.....	3
<i>Term 7</i>	Senior Design 106.....	5
17 hours	Principles of City and Regional Planning 710.....	3
	Working Drawings 604.....	3
	Structural Design 205.....	3
	Elective.....	3



		CREDIT HOURS
<i>Term 8</i>	Senior Design 107.....	5
17 hours	Colonial America and the Nineteenth and Twentieth Centuries in the United States and Europe, History of Architecture 408.....	3
	Drawing and Painting Elective.....	3
	Specifications and Mechanical Equipment 605.....	3
	Elective.....	3
<i>Term 9</i>	Advanced Design 108.....	10
15 hours	Modern Architecture 409.....	2
	Elective.....	3
<i>Term 10</i>	Thesis 109.....	10
14 hours	Professional Practice 621.....	1
	Elective.....	3

The University requirements in military training and physical education must be met in addition to the courses listed.

At least half of the elective requirements should be chosen from liberal and nontechnical courses offered in other divisions of the University. On approval of the Dean, special programs of elective work may be arranged to meet the needs of individual students.



## ART

A FOUR-YEAR undergraduate curriculum with major work in either painting or sculpture leads to the degree of Bachelor of Fine Arts. It is the object of this curriculum to provide opportunity for a general college education with the practice of painting or sculpture as a major field of concentration. During the first year all students follow a common course of study. The last three years provide for intensive studio experience in either painting or sculpture. The courses which constitute the major subject are designed to promote a knowledge and critical understanding of these arts through a study of their aesthetic aspects and of their place in the societies of the past and present, as well as to develop the individual student's talent in the practice of the art he chooses to concentrate upon. Approximately one-half of the student's time through the four-year course is spent in these studies, while the remainder is occupied by a well-rounded program of academic subjects. Ample opportunity is provided for the student to elect additional work in the subjects which are of particular interest to him.

The emphasis placed upon the fundamentals of drawing, design, and color form an excellent foundation for those who wish to specialize later in illustration or advertising art, and two elective courses in applied art are available to such students.

Those who wish to achieve certification as secondary school teachers of art may use the available elective hours to help satisfy the requirements set by the State Board of Education.

The curriculum in Art is an independent program which is under the general jurisdiction of the College of Architecture for administrative purposes. The intimate relationship which exists, however, between the instruction in painting and sculpture and the instruction in architecture is mutually advantageous. Students in each area benefit from the presence of students and teachers in the other.

The teachers in the Department of Art are active artists whose work is found in many museums and private collections.

Those students who are primarily interested in the history rather than in the practice of art should apply for admission to the College of Arts and Sciences with the objective of doing major work in the Department of Fine Arts in that College.



# CURRICULUM IN ART

## BACHELOR OF FINE ARTS

		CREDIT HOURS
<i>Term 1</i>	Introductory Painting, Art 301.....	3
15 hours	Introductory Sculpture, Art 331.....	3
	Introduction to Art, Fine Arts 101.....	3
	Introductory Course in Reading and Writing, English 111.....	3
	Elective.....	3
<i>Term 2</i>	Introductory Painting, Art 302.....	3
15 hours	Introductory Sculpture, Art 332.....	3
	Introduction to Art, Fine Arts 102.....	3
	Introductory Course in Reading and Writing, English 112.....	3
	Elective.....	3
<i>Term 3</i>	Second-Year Painting, Art 303, or Second-Year Sculpture, Art 333....	3
15 hours	Introductory Drawing, Art 341.....	3
	Analysis of Works of Art, Fine Arts 551.....	3
	Electives.....	6
<i>Term 4</i>	Second-Year Painting, Art 304, or Second-Year Sculpture, Art 334....	3
15 hours	Introductory Drawing, Art 342.....	3
	Twentieth-Century Painting, Fine Arts 554.....	3
	Electives.....	6
<i>Term 5</i>	Third-Year Painting, Art 305, or Third-Year Sculpture, Art 335.....	5
17 hours	Intermediate Drawing, Art 343.....	3
	Electives.....	9
<i>Term 6</i>	Third-Year Painting, Art 306, or Third-Year Sculpture, Art 336.....	5
17 hours	Intermediate Drawing, Art 344.....	3
	Electives.....	9
<i>Term 7</i>	Fourth-Year Painting, Art 307, or Fourth-Year Sculpture, Art 337....	5
17 hours	Printmaking, Art 321.....	3
	Electives.....	9
<i>Term 8</i>	Fourth-Year Painting, Art 308, or Fourth-Year Sculpture, Art 338....	5
17 hours	Methods and Materials of Painting, Art 325, or Ceramics, Art 371....	3
	Electives.....	9

The University requirements in military training and physical education must be met in addition to the courses listed.

The sequence of courses given above is not mandatory if prerequisites in each field are met. Of the 54 hours allotted to elective work, six hours must be taken in each of the following: history of art, history or government, laboratory science, foreign language. Not more than six elective hours may be taken in studio work unless special permission is granted.

Students who wish to fulfill the requirements for certification as teachers of art may substitute Art 361 and Art 363 for Art 343 and Art 344.



# GRADUATE STUDY

ADMISSION . . . Graduate study leading to the professional Masters' degrees in Architecture, Landscape Architecture, Regional Planning, or Fine Arts is under the jurisdiction of the Division of Architecture and Fine Arts of the Graduate School. Candidates for admission should apply for the necessary forms to the *Dean, College of Architecture*.

To be admitted to the Division of Architecture and Fine Arts of the Graduate School an applicant (1) must hold a baccalaureate degree from a college or university of recognized standing, or must have done work equivalent to that required for such a degree; (2) as judged by his previous scholastic record, or otherwise, must show promise of ability satisfactorily to pursue advanced study and research; (3) must have had adequate preparation to enter upon graduate study in the field chosen; and (4) must be of good character.

Candidates for the Ph.D., or students who wish to follow a program of graduate study without being candidates for a professional degree, should apply to the *Dean of the Graduate School* for necessary application forms. Regulations governing the study of such students will be found in the *Announcement of the Graduate School*.

UNIVERSITY HEALTH REQUIREMENTS . . . Health requirements for graduate students who are entering Cornell or who have been absent from the University for more than a year have been adopted by the Board of Trustees of Cornell University. Full details of the requirements will be found in the *Announcement of the Graduate School*. The responsibility for fulfilling these requirements rests upon the student.

GRADUATION REQUIREMENTS . . . Each candidate for a Master's degree follows a special program of study worked out in consultation with a faculty adviser who is assigned by the Dean. The faculty adviser is the sole judge of the progress the student makes toward the degree. A satisfactory thesis is required of every candidate for the Master's degree. In the case of a candidate for the M.F.A. degree, the thesis consists of one or more original works of art supplemented by a critical essay on an approved subject. Two bound copies of the thesis, prepared according to approved standards, must be submitted.

A final examination, arranged by the faculty adviser, must be passed in order to qualify for the Master's degree. The examination may be written or oral at the discretion of the faculty.

A student who holds an appointment as a Graduate Assistant may not earn full residence credit toward a degree. The amount of residence credit each term will be established with relation to the amount of time required by his duties as an Assistant.

**MILITARY SCIENCE AND TACTICS . . .** The third and fourth years of military science and tactics (Advanced ROTC) are elective and qualify a student for appointment as a Second Lieutenant in the U. S. Army Reserve or the Regular Army. These courses are open to graduate students who have satisfactorily completed a basic course in ROTC while undergraduates and who are enrolled in a two-year graduate program leading to a degree. Interested graduate students should apply to the Professor of Military Science and Tactics, Barton Hall.

**FELLOWSHIPS AND SCHOLARSHIPS . . .** Scholarships and fellowships available to graduate students are:

*University Scholarship in Architecture.* One scholarship awarded annually for graduate study in Architecture, Landscape Architecture, Regional and City Planning, Painting, or Sculpture. Award, \$225 with free tuition and fees.

*Francke Huntington Bosworth Memorial Fellowship* (gift of Gilmore D. Clarke, '13, and Michael Rapuano, '27). Open to a graduate student in Landscape Architecture. Award, \$1,000.

*Robert James Eidlitz Fellowship* (gift of Sadie Boulton Eidlitz). Available to graduates in Architecture of Cornell University, who could not otherwise afford it, to supplement their professional training by foreign travel or in other ways. Annual award, approximately \$1,200.

*Cornell University Graduate Fellowships.* Open to new students and all graduate students in the University. Award, \$1,500 plus free tuition and fees.

*Graduate Tuition Scholarships.* Open to new students and all graduate students in the University. Award, free tuition and fees.

For more detailed information concerning graduate fellowships and scholarships, consult the *Announcement of the Graduate School*.

**GRADUATE STUDY IN ARCHITECTURE . . .** Only those students who have satisfactorily completed a five-year course in Architecture at an approved institution may be admitted as candidates for the degree of Master of Architecture. The minimum period of residence to qualify for the Master's degree is two terms. Foreign students whose undergraduate training has been outside the United States are ordinarily held for four terms.



Graduate students may major in architectural design, architectural construction, or the history of architecture.

A graduate student doing major work in architectural design ordinarily follows a research program developed with the guidance of his faculty adviser. Research may consist of a thorough study of a building type or class of buildings.

**GRADUATE STUDY IN LANDSCAPE ARCHITECTURE . . .** Students who have satisfactorily completed an undergraduate degree program in Landscape Architecture at an approved institution may be admitted as candidates for the degree of Master of Landscape Architecture. The minimum period of residence is two terms, but a longer period may be required in individual cases, depending upon the adequacy of preparation.

The purpose of Landscape Architecture, as a fine art, is to prepare areas of land for human use and enjoyment and at the same time to preserve, enhance, and create beauty in the landscape. The range of professional practice must include a knowledge of all the materials, methods, and processes that are needed for the planning of a finished piece of work. Fundamental training in architecture, in engineering, and in horticulture is required for the landscape architect's equipment. His range should be even wider, for he needs to acquire facility of expression in the graphic arts, familiarity with the arts of painting and sculpture, and acquaintance with such diverse subjects as regional and city planning, history, civil government, economics, sociology, geology, and forestry.

The curriculum leading to the degree of Master of Landscape Architecture puts emphasis on a correlative study of architecture as an aid in training the student's aesthetic judgment and his mastery of applied design in his own field. It recognizes that he will need a sympathetic knowledge of the architect's professional problems and point of view, a disciplined sense of the relation of buildings to land, and a ready skill in the treatment of their surroundings if he is to deal successfully with the larger problems involved in the development of land for varieties of human use, including work related to the planning of cities, towns, housing developments, parks, parkways, and expressways.

Attention is invited to the fact that it is possible to arrange a six-year course of study which leads to the degree of Bachelor of Architecture at the end of five years and to the degree of Master of Landscape Architecture at the end of one additional year. This course of study is recommended for those who expect to enter the profession of Landscape Architecture where a license to practice is desirable. In this manner the student of landscape architecture is given the basic educational requirements necessary to obtain a professional license for the practice of architecture.

**GRADUATE STUDY IN PAINTING AND SCULPTURE . . .** Students who hold a Bachelor's degree and who have shown special aptitude in the field of painting or sculpture may be admitted to graduate study as candidates for the degree of Master of Fine Arts. The minimum period of residence for the Master's degree is four terms. Graduate students may major in either painting or sculpture.

**MASTER OF EDUCATION . . .** Students preparing themselves for the teaching of art in the elementary or secondary schools may become candidates for the degree of Master of Education (M.Ed.), administered by the School of Education under the jurisdiction of the Graduate School.

The degree of Master of Education is conferred upon successful candidates after one year of graduate study. The student attaining this degree will qualify for a certificate as a teacher of art in the elementary and secondary schools under the regulations of the New York State Department of Education. For further information, consult the *Announcement of the School of Education*.

*A graduate thesis in Painting.*



## GRADUATE STUDY IN CITY AND REGIONAL PLANNING . . .

The degree of Master in Regional Planning is offered to students registered in the Graduate School who major in City and Regional Planning. Students with a background in architecture, landscape architecture, engineering, economics, sociology, geography, government, or agricultural economics may be accepted as candidates for the degree of Master in Regional Planning. Each student follows a specialized plan of study, with special emphasis on the particular relationship the field of study which he pursued as an undergraduate has to planning. Thus, a graduate in architecture may approach planning from his specialized background while acquiring a full knowledge of the manner in which the architect, the landscape architect, the public administrator, the economist, the sociologist, the geographer, the lawyer, and those in other related professions fit into the planning program. Each student is assigned a faculty adviser who will assist him in framing his academic program.

The planning of cities and regions has become firmly established as a professional field offering interesting and useful careers in local, state, and national government, as well as in private practice.

*Graduate students in Planning design a new town.*



The ever increasing complexity of our society has made imperative the application of forethought and sound judgment in the coordination and integration of all the varied components that comprise our physical environment, urban and rural. The basic aim of City and Regional Planning is the adjustment and harmonization of the many social, economic, and physical factors that affect the neighborhoods, cities, and regions in which we live, to the end that a more healthful, safe, efficient, and pleasant environment may be developed.

It ordinarily requires two years to earn this degree. Those who have had substantial academic work in planning as undergraduates, equivalent to the courses given in the Department of City and Regional Planning at Cornell, may earn the degree in less than two years.

Many related courses given in other departments of the University are open to students in the Department of City and Regional Planning. A typical two-year program is shown, but this is subject to modification for each student after evaluation of his undergraduate training, experience, and particular interests.

Students in the College of Architecture or in the School of Civil Engineering at Cornell who are interested in graduate study of City and Regional Planning may, with permission of their faculty advisers, follow a specialized undergraduate program which will permit them to earn the degree of Master of Regional Planning in one year of graduate study.

#### TYPICAL PROGRAM FOR MASTER OF REGIONAL PLANNING

		CREDIT HOURS
FIRST YEAR		
<i>Term 1</i>	Principles of City and Regional Planning 710.....	3
	City Planning Design 718.....	8
	Municipal Administration, B. & P.A. 218.....	3
	Air Photo Interpretation, C.E. 2621.....	3
<i>Term 2</i>	History of City Planning 700.....	3
	City Planning Practice 711.....	3
	Seminar in Current Housing Problems, H. & D. 400.....	3
	Planning Administration 716.....	2
	Planning and Zoning Law 717.....	2
	Municipal Administration, B. & P.A. 219.....	3
SECOND YEAR		
<i>Term 3</i>	Seminar in City and Regional Planning 714.....	2
	Field Problem in Urban Planning 720.....	8
	Traffic Engineering, C.E. 2620.....	3
	Elective.....	3
<i>Term 4</i>	Thesis 721.....	15
	Seminar in Urban Renewal 715.....	2



# COURSES OF INSTRUCTION

THE PRECEDING analysis of the several courses of study leading to degrees showed them to consist of individual *courses of instruction*. All these individual courses are described in the list which now follows. Here they are arranged under heads appropriate to their subject matter. They are all elements of the regular work of the College of Architecture. In most of them the instruction is given by members of the faculty of Architecture. In others—those which come toward the end of the list—the instruction is given by members of other faculties.

*The time and place of each course of study and the name of the instructor will be given in a separate memorandum issued by the College office at the beginning of each term.*

## DESIGN

Instruction in architectural and landscape design is given by the design staff—Messrs. WELLS, HARTELL, BARNETTE, CANFIELD, ELDER, EDMONDSON, KIRA, PERREAULT, ROWE, and assistants—and by visiting critics. It consists of individual criticism over the drafting board. By appointment.

## ARCHITECTURAL DESIGN

Among the courses leading to the degree of Bachelor of Architecture, design is the basic course and has the greatest number of hours allotted to it. It is in this sequence of courses that the student is expected to demonstrate his ability to solve specific problems in such a manner that the final result is a structure efficiently planned, solidly constructed, aesthetically satisfying, and in harmony with its surroundings. All other courses leading to this degree are considered as contributing to these objectives.

100, 101. *Introductory Design*. Two terms. Credit three hours a term. An introduction to the design and construction of buildings in relation to their immediate environment. The student submits, by means of models and drawings, original solutions to a series of problems. The course begins with a study of three-dimensional abstract design and continues with a progressive sequence of small architectural compositions in a given topography. Lectures, discussions, and group and individual criticisms.

102, 103. *Intermediate Design*. Two terms. Credit four hours a term. Prerequisite, Courses 100 and 101.

104, 105. *Junior Design*. Two terms. Credit four hours a term. Prerequisite, Courses 102 and 103.

106, 107. *Senior Design*. Two terms. Credit five hours a term. Prerequisite, Courses 104 and 105.

108. *Advanced Design*. One term. Credit ten hours. Prerequisite, Courses 106 and 107.

109. *Thesis in Architecture*. One term. Credit ten hours. Prerequisite, Course 108.

119. *Elective Design*. Either term. Credit as assigned.

120, 121. *Architectural Design for Nonprofessionals*. Two terms. Credit three hours a term. A basic course in the principles of architectural design for the nonprofessional student. The course is somewhat parallel to Courses 100 and 101, but more emphasis is placed on residential buildings. Original solutions to a series of architectural problems will be presented in drawings and models.

190. *Graduate Design*. Either term. Credit as assigned. A course for graduate students in Architecture.

## LANDSCAPE DESIGN

Through the courses in landscape design the student learns to organize and plan land forms, to coordinate structure and site, and to use plant materials with due regard for their aesthetic and practical values.

154, 155. *Advanced Landscape Design*. Two terms. Credit eight hours a term. Intended primarily for graduate students.

156, 157. *Graduate Landscape Design*. Two terms. Credit eight hours a term. Prerequisite, Courses 154 and 155.

160. *Graduate Thesis in Landscape Architecture*. One term. Credit as assigned.

## STRUCTURE

The courses in Mechanics deal with structural theory, which is applied in the Structural Design courses to the structure of buildings.

Instruction is given by Messrs. BROWN and TERAZAKI.

200. *Mechanics of Materials*. Spring term. Credit three hours. Prerequisite, Mathematics 161. Statics: unit stress; strength of materials; center of gravity, static moment, and moment of inertia.

201. *Mechanics of Materials*. Fall term. Credit three hours. Prerequisite, Course 200. Beams: shear and bending moment; bending unit stress; shearing unit stress; strength relationships and cantilevers. Columns: concentric loading; combined section; intermediate bracing.

202. *Mechanics of Materials*. Spring term. Credit three hours. Prerequisite, Course 201. Beams: slope and deflection; restraint and continuity; moment distribution. Direct stress and flexure: footings, columns, and bents. A.I.S.C. design specifications and handbook data. Reinforced concrete: elementary flexural theory. The final examination is considered as a qualification for Structural Design.

203, 204. *Structural Design*. Throughout the year. Credit three hours a term. Prerequisite, Course 202. Lectures and computations. Design and investigation of commonly used systems of building structure: timber, steel, and reinforced concrete.

205. *Structural Design*. Fall term. Credit three hours. Prerequisite, Course 203 and the completion of Course 204. (If Course 204 has not been passed, the student may take Course 205 and repeat Course 204 in the spring term.) Investigation of the newer structural forms in contemporary architecture.

## ART

All courses given in the Department of Art are open to students in any college of the University who have fulfilled the prerequisites. The courses in Drawing, Art 340a and 340b, in Painting 300a and 300b, and in Sculpture 330a and 330b are especially designed for students who are not majoring in Art and who have had no previous studio work.

Instruction is given by MESSRS. HARTELL, MAHONEY, DALY, HANSON, EVETT, COLBY, ATWELL, KAHN, COOK, and assistants.

## SEMINARS

Art 352. *The Practice of Art*. Fall term. Credit one hour. Open to upperclassmen and graduates by permission.

A seminar dealing with the aesthetic and professional problems of the painter and sculptor.

Art 398. *Seminar in Art Criticism*. Either term. Credit two hours. May be repeated for credit. Open to graduate students and upperclassmen by permission.

A study of critical opinions, historical and modern, and their relation to problems in the theory of art.

Art 399. *Seminar in the Teaching of Art*. Either term. Credit two hours. May be repeated for credit. Open to graduate students and upperclassmen by permission.

Investigation of the methods, past and present, of teaching art. Practice in conducting classes. Offered with the cooperation of the School of Education.

## STUDIO COURSES IN PAINTING

Art 300a. *Introductory Painting*. Either term. Credit three hours. No prerequisites.

For students not majoring in Art who wish an introduction to the basic principles of drawing and painting. The course offers the student an opportunity to test and develop his skill and to broaden his understanding of these arts. Studio work with occasional lectures and discussions. No previous experience required.

Art 300b. *Introductory Painting*. Either term. Credit three hours. Prerequisite, Course 300a.

A continuation of Course 300a.

Art 301, 302. *Introductory Painting*. Throughout the year. Credit three hours a term.

An introduction to the problems of artistic expression through the study of pictorial composition; proportioning, spacing, and the designing of shapes as applied to abstract and representational design. Students will draw as well as paint.

Art 303, 304. *Second Year Painting*. Throughout the year. Credit three to five hours a term. Prerequisite, Course 302 or, with permission, Course 300b.

Drawings, collages, and paintings are the media through which the artistic uses of contour and the relation of contour and tonal pattern in pictorial organization will be studied. The work of various contemporary and historical painters will be analyzed and their solutions to similar problems discussed.

Art 305, 306. *Third Year Painting*. Throughout the year. Credit three to seven hours a term. Prerequisite, Course 304.

Study of the principles of picture making. The selection and organization of material for expressive purposes in various media. Discussions and individual criticism.

Art 307, 308. *Fourth Year Painting*. Throughout the year. Credit three to seven hours a term. Prerequisite, Course 306.

Further study of the art of painting through both assigned and independent projects executed in various media. Instruction through group discussions and individual criticism.

Art 390. *Graduate Painting*. Either term. Credit as assigned. May be repeated for credit.

The student will be responsible, under direction, for planning his own projects and selecting the media in which he is to work. All members of the staff are available for individual consultation, and weekly discussion sessions of works in progress are held. At the end of the third term of residence, candidates for the Master of Fine Arts are



required to exhibit a selection of their works in the Gallery of the Department.

## DRAWING AND PAINTING COURSES FOR STUDENTS OF ARCHITECTURE

Art 311, 312. *Introductory Drawing and Painting*. Throughout the year. Credit three hours a term.

The elements of representation and two-dimensional composition, involving freehand drawing, the rudiments of perspective, and the handling of water color.

Art 313. *Intermediate Drawing and Painting*. Either term. Credit three hours. Prerequisite, Course 312.

A continuation of Courses 311 and 312 with special emphasis on two-dimensional design, pictorial composition, and the artistic use of color. Problems will be executed in pencil, pen and ink, transparent and opaque water color, and collage.

Art 314. *Advanced Drawing and Painting*. Either term. Credit three hours. Prerequisite, Course 313. May be repeated for credit.

An elective course for student architects who wish further work in this field. Problems will meet the individual needs of the student.

## STUDIO COURSES IN GRAPHIC ARTS

Art 321. *Printmaking*. Fall term. Credit three hours. Prerequisites, Courses 300 and 301.

Study and practice of the methods of engraving, etching, block printing, lithography, and silk screen printing.

Art 322. *Printmaking*. Fall term. Credit three hours. Prerequisite, Course 321, and permission of the instructor. May be repeated for credit.

Intended for those who elect to take additional work in this field.

## STUDIO COURSES IN TECHNIQUES

Art 325. *Methods and Materials of Painting*. Spring term. Credit three hours. Prerequisites, Courses 300 and 301.

A study of the effect of the various materials, media, and techniques upon styles of painting. Mosaic, egg tempera, fresco, and the various methods of oil painting will be studied. Lectures, discussions, readings, studio exercises, and examinations.

Art 326. *Methods and Materials of Painting*. Spring term. Credit three hours. Prerequisite, Course 325. May be repeated for credit.

An elective course for those who wish to do additional work in this field.

## STUDIO COURSES IN SCULPTURE

Art 330a. *Introductory Sculpture*. Either term. Credit three hours. No prerequisites.

For students not majoring in Art this course offers, through studio work with occasional lectures and discussions, an introduction to the principles of sculpture. The student will work under individual instruction in plasteline, plaster wood, or metal. No previous experience required.

Art 330b. *Introductory Sculpture*. Either term. Credit three hours. Prerequisite, Course 330a.

A continuation of Course 330a.

Art 331. *Introductory Sculpture*. Either term. Credit three hours.

A series of studio problems introducing the student to the basic considerations of artistic expression through three-dimensional design. Modeling in plasteline, building directly in plaster, and casting in plaster.

Art 332. *Introductory Sculpture*. Either term. Credit three hours. Prerequisite, Course 331.

A continuation of Course 331.

Art 333, 334. *Second-Year Sculpture*. Throughout the year. Credit three hours a term. Prerequisite, Course 332.

The study of more complex problems in design and the interrelation for expressive purposes of design and the materials of sculpture, wood, stone, metals, and some plastic materials.

Art 335, 336. *Third-Year Sculpture*. Throughout the year. Credit three to seven hours a term. Prerequisite, Course 334.

Continued study of the principles of sculpture, the selection and expressive use of materials and media. Group discussions and individual criticism.

Art 337, 338. *Fourth-Year Sculpture*. Throughout the year. Credit three to seven hours a term. Prerequisite, Course 336.

An advanced course in sculpture. Assigned and independently chosen projects developed in various media.

Art 339. *Graduate Sculpture*. Either term. Credit as assigned.

A course for graduate students majoring in sculpture.

## STUDIO COURSES IN DRAWING

Art 340a. *Introductory Drawing*. Either term. Credit three hours. No prerequisites.

For students not majoring in Art. The foundations of drawing studied through studio work from the human figure. Analysis of exam-

ples by historical and contemporary artists will form the subject of occasional discussion periods. No previous experience required.

Art 340b. *Introductory Drawing*. Either term. Credit three hours. Prerequisite, Course 340a.

Art 341. *Introductory Drawing*. Either term. Credit three hours.

The study of the human figure as a basic drawing course. Studio work provides experiments in visual concentration (memory drawings) and co-ordination of hand and eye (contour drawings) as well as the opportunity, in long poses, to combine line and tone in drawings where the relation between anatomical and artistic proportion is studied and design elements are stressed. Contemporary and historical examples of figure drawing are analyzed in discussions.

Art 342. *Introductory Drawing*. Either term. Credit three hours. Prerequisite, Course 341.

A continuation of Course 341.

Art 343. *Intermediate Drawing*. Either term. Credit three hours. Prerequisite, Course 342.

A continuation of the basic studies undertaken in Courses 341 and 342 but with both a closer analysis of the structure of the figure and a wider exploitation of its purely pictorial qualities. Students may paint as well as draw.

Art 344. *Intermediate drawing*. Either term. Credit three hours. Prerequisite, Course 343.

A continuation of Course 343.

Art 345. *Advanced Drawing*. Either term. Credit three hours. Prerequisite, Course 344. May be repeated for credit.

An advanced elective course in the fields that are covered by Courses 341-344.

## STUDIO COURSES IN APPLIED ART

Art 361. *Typography and Lettering*. Fall term. Credit three hours. Prerequisite, 24 hours in studio courses, which may include Architectural Design, and consent of the instructor.

An intensive study of the basic and classical forms of book and publication design and their application to contemporary needs. Practice in manuscript and built-up letter forms, presentation, and advertising and publication layout.

Art 363. *Applied Design*. Spring term. Credit three hours. Prerequisite, Course 361.

Group and individual projects in graphic design. Exhibition techniques, including lighting in display; fabric design, illustration, reproduction techniques, and art editing. Field trips.

## STUDIO COURSES IN CERAMICS

Art 371. *Ceramics*. Either term. Credit three hours. Prerequisite, Courses 331 and 332.

A course in pottery making involving the design and decoration of various types of ware and including the study and practice of the chemistry of clays, hand building, slip casting, mold making, throwing and turning, glazing and firing.

Art 372. *Ceramics*. Either term. Credit three hours. Prerequisite, Course 371.

A continuation of Course 371.

Art 373. *Ceramics*. Either term. Credit three hours. Prerequisite, Course 372. May be repeated for credit.

An elective course for those who wish to do additional work in this field.

## THESIS

Art 396. *Graduate Thesis*. Either term. Credit as assigned.

Candidates for the degree of Master of Fine Arts will present a thesis at the end of their fourth term of residence. This will consist of one or more pieces of creative work in the student's major field and an essay dealing with a subject of his own choice in the theory or criticism of art.

## HISTORY OF ARCHITECTURE AND FINE ARTS

The several courses in history offered in the College of Architecture are primarily in the form of lectures. Chronological sequence is followed, with such varying emphasis upon aesthetic, social, political, and economic considerations as may be required.

## HISTORY OF ARCHITECTURE AND THE ARTS

Courses 404-408 comprise a five-term sequence. They provide a survey of the history of architecture and of the arts of painting and sculpture, considered as social and cultural expressions of Western civilization. Although the emphasis in each term is on architecture, lectures are also given on parallel developments in painting and sculpture. This sequence forms part of the professional training of students in Architecture.

Lectures on the history of architecture are given by Mr. DETWEILER and on the history of painting and sculpture by Mr. FINLAYSON.

404. *The Ancient World before Rome*. Fall term. Credit three hours.

405. *The Rise and Fall of the Roman Empire*, Spring term. Credit three hours. Prerequisite, Course 404.



406. *The Middle Ages*. Fall term. Credit three hours. Prerequisite, Course 405.

407. *The Renaissance*. Spring term. Credit three hours. Prerequisite, Course 406.

408. *Colonial America and the Nineteenth and Twentieth Centuries in the United States and Europe*. Spring term. Credit three hours. Prerequisite, Course 407.

409. *Modern Architecture*. Fall term. Credit two hours. Prerequisite, Course 408.

## SPECIAL COURSES IN HISTORY

400, 401. *History of Architecture*. Throughout the year. Credit three hours a term. Primarily intended for students who are not architects but who are interested in a brief survey of the history of architecture and its relationship with parallel social, economic, and political trends. No experience in drawing or knowledge of structural elements is required. Either or both terms may be taken for credit.

470, 471. *Historical Seminar in Architecture*. Throughout the year. Credit two hours a term. Investigation of assigned topics in the history of architecture. Open to graduate students and to upperclassmen by permission.

475. *Independent Research in the History of Architecture*. Either term. Hours as assigned.

## HISTORY OF PAINTING AND SCULPTURE

424, 425. *The Arts in America*. Throughout the year. Credit three hours a term. Not open to freshmen. Domestic architecture, painting, furniture, silverware, ironwork from New England to the Carolinas. Fall term, the Colonial period. Spring term, the Federal period. Mr. FINLAYSON.

426, 427. *Western European Painting*. Throughout the year. Credit three hours a term. Not open to freshmen. A survey of major trends in West European painting from the fourteenth century to 1870. Fall term, from the artificial elegance of fourteenth-century Prague and Paris through the rediscovery of reality by the Van Eycks and their followers to such Renaissance masters as Durer, Brueghel, and El Greco. Spring term from Poussin, Rubens, Velasquez, and Rembrandt through Rococo Versailles to Goya, Delacroix, and Manet. Mr. FINLAYSON.

## COURSES IN THE COLLEGE OF ARTS AND SCIENCES

Other courses in the history of painting and sculpture are open to students in the College of Architecture. For further information, see the *Announcement of the College of Arts and Sciences*.

## GRAPHICS

500, 501. *Descriptive Geometry*. Throughout the year. Credit three hours a term. Lectures and drawing. First term, the fundamental problems of the subject, involving points, lines, planes, plane solids, plane and space curves, curved surfaces, tangencies, and intersections. Second term, a study of shades and shadows as a direct application of descriptive geometry, with light from any source, followed by the conventional constructions for architectural form; perspective and various derived techniques for its practical application, Mr. TILTON and assistants.

## CONSTRUCTION

The following courses are planned to correlate all the previous work of the student. They are based on the concept that office practice requires drawings, specifications, and contracts developed from a thorough knowledge of the client and his problems, as well as the fact that working drawings, specifications, and contracts must be thoroughly related and checked one against the other. Problems are given, to be solved just as they should be solved in an office.

Instruction by Messrs. TILTON, WELLS, BROWN, CANFIELD, and assistants.

601, 602. *Building Materials and Construction*. Two terms. Credit three hours a term. Prerequisite, four terms in the College of Architecture or the equivalent. A brief study of structural materials and details of construction with particular reference to concrete, masonry, ordinary construction, slow-burning construction, fireproof construction. Lectures and discussions.

604. *Working Drawings*. One term. Credit three hours. Prerequisite, Courses 105, 602, and 203 (may be taken with 203). Criticisms by appointment. The design of structures, demonstrated by preliminary sketches, small-scale and large-scale working drawings, and structural reports.

605. *Specifications and Mechanical Equipment*. One term. Credit three hours. Prerequisite, Course 104.

621. *Professional Practice*. One term. Credit one hour. A seminar devoted to discussion of professional ethics and other problems arising in the day-to-day procedures in office practice. Registration limited and by permission only.

## CITY AND REGIONAL PLANNING

Instruction is given by MESSRS. MACKESEY, EDMONDSON, REPS, BEYER, PARSONS, and lecturers.

700. *History of City Planning*. Spring term. Credit three hours. Open to graduates and upperclassmen. The history of the planning of communities from ancient times to the present. Lectures, assigned readings, and examinations.

710. *Principles of City and Regional Planning*. Fall term. Credit three hours. Open to graduates and upperclassmen. A review of the basic influences in the development of cities. A general view of the theory and accepted practice of city and regional planning, including a study of the social, economic, and legal phases. Lectures, assigned readings, and examinations.

711. *City Planning Practice*. Spring term. Credit three hours. Prerequisite, Course 710. The procedures and techniques of gathering and analyzing data for municipal planning studies. The selection and integration of data for use in planning. Practical application of the theories of city planning. Office practice. Lectures, assigned readings, reports.

713. *Housing*. Spring term. Credit two hours. Registration limited. Prerequisite, Course 710. An introduction to the theory and standards of housing practice through analysis and comparison of various existing examples, considering the social, economic, and technical sides of the work. Lectures, assigned reading, and reports. Not offered in 1958-1959.

714. *Seminar in City and Regional Planning*. Fall term. Credit two hours. Prerequisite, Course 710 and permission of instructor. Investigation of assigned research topics in urban or regional planning. Field trips and oral and written reports.

715. *Seminar in Urban Renewal*. Spring term. Credit two hours. Prerequisite, Courses 710 and 711. Discussion of the social, economic, and physical aspects of urban renewal. Examination of federal, state, and local policies, legislation organization, and programs; urban renewal study procedures and project planning. Assigned readings, case studies, reports.

716. *Planning Administration*. Spring term. Credit two hours. Prerequisite, Course 710 and permission of instructor. An examination of the principal administrative problems in planning, including the organization of the municipal planning agency, office management, relations with legislative bodies and executive departments, public works programing, urban redevelopment procedure, and administrative aspects of state and federal public housing.

717. *Planning and Zoning Law*. Spring term. Credit two hours. Prerequisite, Course 710. Technical and legal aspects of preparing and administering zoning ordinances. Examination of other legal problems in planning, including subdivision control, official map procedure, regulation of roadside development, and building and housing codes.

718. *City Planning Design*. Fall term. Credit eight hours. Limited to graduate students and, by permission, to seniors who may substitute it for Design 108. Students are assigned a series of design problems as a means of introduction to the basic principles of large-scale site planning. Lectures, discussions, and group and individual criticism.

719. *City Planning Research*. Either term. Credit as assigned. Assigned reading and individual direction of student research in urban or regional planning.

720. *Field Problem in Urban Planning*. Fall term. Credit eight hours. Group study of an existing community and the preparation of a general plan for its future development. Investigation of population trends, economic base, and regional influences. Land use analysis, and studies of traffic flow, recreation facilities, housing conditions, school and public building locations, automobile parking, public transportation, and other elements of the community. Preparation of recommendations for carrying out the general plan. Lectures, discussions, field trips, preliminary and final reports.

721. *Thesis in City or Regional Planning*. Either term. Credit as assigned. Independent research in some major aspects of city or regional planning, or the preparation of an area study using professional techniques in community analysis and plan preparation.

## MATHEMATICS

The following course is offered by the Department of Mathematics in the College of Arts and Sciences.

161. *Analytic Geometry and Calculus*. One term. Credit three hours. Prerequisite, Mathematics 133 or its equivalent.

## ENGLISH

The following course is offered by the Department of English in the College of Arts and Sciences.

111, 112. *Introductory Course in Reading and Writing*. Throughout the year. Credit three hours a term. English 111 is a prerequisite of 112. The aim of this course is to increase the student's ability to communicate his own thought and to understand the thought of others.